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S5	2	("20010032218").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2005/12/15 09:11
S6	0	("2001/0032218").URPN.	USPAT	OR	ON	2005/12/15 09:44
S7	11368	document and edit\$5 and layout	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/12/15 09:45
S8	0	tramsform\$5 and S7	USPAT	OR	ON	2005/12/15 09:45
S9	1891	transform\$5 and S7	USPAT	OR	ON	2005/12/15 09:46
S10	0	(layout adj statement) and S9	USPAT	OR	ON	2005/12/15 09:47
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## 1 Anchored conversations: chatting in the context of a document

Elizabeth F. Churchill, Jonathan Trevor, Sara Bly, Les Nelson, Davor Cubranic  
 April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(1.20 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes an application-independent tool called Anchored Conversations that brings together text-based conversations and documents. The design of Anchored Conversations is based on our observations of the use of documents and text chats in collaborative settings. We observed that chat spaces support work conversations, but they do not allow the close integration of conversations with work documents that can be seen when people are working together face-to-face. Anchored Conversati ...

**Keywords:** CSCW, asynchronous communication, collaboration, conversations, shared documents, sticky chats, synchronous communication, text-based chat

## 2 Standardization in IT: Inter-organizational document exchange: facing the conversion

problem with XML

Luis Martín Díaz, Erik Wüstner, Peter Buxmann  
 March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(470.62 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Information exchange processes are often characterized by the need of translating from one data format into another in order to achieve compatibility between information systems. A conversion problem often arises when exchanging files between applications of different software vendors or when incorporating legacy business data into new standard software. In this paper we want to survey the conversion problem in the field of multi-organizational networks, since participants often use different da ...

**Keywords:** Java, XML, conversion problem, information systems, inter-organizational document exchange, standardization, supply chain management

## ◆ Theory and models II: Supervised learning for the legacy document conversion

Boris Chidlovskii, Jérôme Fuselier

October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Publisher: ACM Press

Full text available: [pdf\(180.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We consider the problem of document conversion from the rendering-oriented HTML markup into a semantic-oriented XML annotation defined by user-specific DTDs or XML Schema descriptions. We represent both source and target documents as rooted ordered trees so the conversion can be achieved by applying a set of tree transformations. We apply the supervised learning framework to the conversion task according to which the tree transformations are learned from a set of training examples. %Because o ...

**Keywords:** XML markup, legacy document conversion, machine learning

## 4 Programming languages and object technologies: Automated conversion from requirements documentation to an object-oriented formal specification language



Beum-Seuk Lee, Barrett R. Bryant

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: [pdf\(451.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In software engineering there have been very few attempts to automate the translation from a requirements document written in a natural language (NL) to one of the formal specification languages. One of the major reasons for this challenge comes from the ambiguity of the NL requirements documentation because NL depends heavily on context. We use Contextual Natural Language Processing (CNLP) to overcome the ambiguity in NL, and Two-Level Grammar (TLG) to construct a bridge between a NL requiremen ...

**Keywords:** Vienna development method, XML, contextual natural language processing, object-oriented software specification, two-level grammar

## 5 Documentation, interaction, and conversation



Terry Winograd

November 1999 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 23

Issue 4

Publisher: ACM Press

Full text available: [pdf\(430.32 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

## 6 Do a quick conversion: put all our documentation on the web



Ann Amsler

November 1997 **Proceedings of the 25th annual ACM SIGUCCS conference on User services: are you ready?**

Publisher: ACM Press

Full text available: [pdf\(467.70 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

## 7 A real world conversion to SGML



Dee Stribling, Tim Hunter, Len Olszewski, Anne Corrigan, Randy Mullis, Lloyd Allen

October 1996 **Proceedings of the 14th annual international conference on Systems documentation: Marshaling new technological forces: building a**

**corporate, academic, and user-oriented triangle****Publisher:** ACM PressFull text available:  pdf(1.19 MB) Additional Information: [full citation](#), [index terms](#)

- 8 Structured document storage and refined declarative and navigational access mechanisms in HyperStorM

Klemens Böhm, Karl Aberer, Erich J. Neuhold, Xiaoya Yang

November 1997 **The VLDB Journal – The International Journal on Very Large Data Bases**, Volume 6 Issue 4**Publisher:** Springer-Verlag New York, Inc.Full text available:  pdf(184.18 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The combination of SGML and database technology allows to refine both declarative and navigational access mechanisms for structured document collection: with regard to declarative access, the user can formulate complex information needs without knowing a query language, the respective document type definition (DTD) or the underlying modelling. Navigational access is eased by hyperlink-rendition mechanisms going beyond plain link-integrity checking. With our approach, the database-internal repres ...

**Keywords:** Document query languages, Navigation, OODBMSs, SGML

- 9 Satchel: providing access to any document, any time, anywhere

 Mik Lamming, Marge Eldridge, Mike Flynn, Chris Jones, David PendleburySeptember 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 3**Publisher:** ACM PressFull text available:  pdf(591.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Current solutions for providing access to electronic documents while away from the office do not meet the special needs of mobile document workers. We describe "Satchel," a system that is designed specifically to support the distinctive features of mobile document work. Satchel is designed to meet the following five high-level design goals (1) easy access to document services; (2) timely document access; (3) streamlined user interface; (4) ubiquity; and (5) compliance with securi ...

**Keywords:** document access, document appliance, document processing, information appliance, mobile computing, mobile work

- 10 Semantics and dialog: Augmenting conversational dialogue by means of latent semantic googling

 Robin Senior, Roel VertegaalOctober 2005 **Proceedings of the 7th international conference on Multimodal interfaces ICMI '05****Publisher:** ACM PressFull text available:  pdf(497.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents Latent *Semantic Googling*, a variant of Landauer's Latent Semantic Indexing that uses the Google search engine to judge the semantic closeness of sets of words and phrases. This concept is implemented via *Ambient Google*, a system for augmenting conversations through the classification of discussed topics. *Ambient Google* uses a speech recognition engine to generate Google keyphrase queries directly from conversations. These queries are used to analyze the semantic ...